

WHAT IS CLAIMED IS:

1. A radio paging receiver comprising:

receiving means for receiving a radio signal from a base station of a radio paging system;

5 holding means for holding at least of calling address assigned to own receiver;

first decoding means for picking up message data corresponding to the calling address or the calling addresses from the radio signal;

10 data storing means for storing the message data;

character sequence designating means for designating character sequences in stored messages;

15 character sequence retrieving means for detecting whether or not designated character sequences are contained in stored messages;

time counting means for monitoring whether or not a predetermined time has lapsed after the messages are stored;

erasing means for erasing the stored messages from a storage area; and

20 first controlling means for causing the erasing means to erase concerned messages when it is detected by the character sequence retrieving means that the designated character sequences are contained in the stored messages and it is detected by the time counting means that the predetermined time has lapsed after  
25 the messages are stored.

2. A radio paging receiver according to claim 1,

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further comprising a character sequence inputting means for inputting character sequences which are retrieved to erase messages.

5           3.     A radio paging receiver according to claim 1, further comprising:

          address associated storing means for storing the message data picked up by the first decoding means every calling address;

          address setting means for designating the calling  
10 addresses as objects of erasure by time counting; and

          second controlling means for causing the erasing means to erase the messages based on signals from the address setting means and the time counting means.

15           4.     A radio paging receiver according to claim 1, further comprising:

          second decoding means for picking up message data which are classified into a hierarchical structure and transmitted to own address;

20           hierarchy associated storing means for storing the message data which are picked up by the second decoding means every hierarchy; and

          hierarchy setting means for designating hierarchies as objects of erasure by time counting;

25           wherein erasure of the messages is effected by the hierarchy setting means and the time counting means.

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5. A radio paging receiver according to any one of claims 1 to 4, further comprising:

time setting means for inputting times as timings for erasure of the messages by a user; and

5 time monitoring means for monitoring whether or not a time coincides with an input time;

wherein the erasure of the messages is effected periodically at respective times which are input by the user.

10 6. A radio paging receiver according to any one of claims 1 to 4, further comprising:

day-of-the-week setting means for inputting a day of the week as timings for erasure of the messages by a user; and

15 day-of-the-week monitoring means for monitoring whether or not a day of the week coincides with an input day of the week;

wherein the erasure of the messages is effected periodically at respective days of the week which are input by the user.

20 *John C. 17* 7. A radio paging receiver comprising:  
receiving means for receiving a radio signal from a base station of a radio paging system;

first decoding means for picking up one calling address or a plurality of calling addresses assigned to own receiver from  
25 the radio signal received by the receiving means and also picking up message data corresponding to the calling address or the calling addresses;

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data storing means for storing the message data picked up by the first decoding means;

holding means for holding at least of calling address assigned to own receiver;

5 character sequence designating means for designating character sequences in stored messages;

received character sequence retrieving means for detecting whether or not designated character sequences are contained in received messages; and

10 erasing means for erasing the messages;

wherein, when designated character sequences are contained in the received messages, the messages are not stored in a storage area but erased after the messages have been checked.

15 8. A radio paging receiver according to claim 7, further comprising character sequence inputting means for inputting character sequences which are retrieved to erase messages.

20 9. A radio paging receiver according to claim 7, further comprising:

second decoding means for picking up a plurality of calling addresses assigned to own receiver and picking up message data which are transmitted to own address;

25 storing means for storing the message data which are picked up by the second decoding means every address; and address setting means for designating addresses as

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objects of erasure at a time of reception;

wherein the messages related to particular addresses are not stored in the storage area, but erased after the messages have been checked.

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10. A radio paging receiver according to claim 7, further comprising:

third decoding means for picking up message data which are classified into a hierarchical structure and transmitted to own address;

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second storing means for storing the message data which are picked up by the third decoding means every hierarchy; and

hierarchy setting means for designating hierarchies as objects of erasure at a time of reception;

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wherein the messages belonging to particular hierarchies are not stored in the storage area, but erased after the messages have been checked.

11. A radio paging receiver comprising:

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receiving means for receiving a radio signal from a base station of a radio paging system;

first decoding means for picking up one calling address or a plurality of calling addresses assigned to own receiver from the radio signal received by the receiving means and also picking up message data corresponding to the calling address or the calling addresses;

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data storing means for storing the message data picked

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up by the first decoding means;

holding means for holding at least of calling address assigned to own receiver;

character sequence designating means for designating  
5 character sequences in stored messages;

stored character sequence retrieving means for detecting whether or not designated character sequences are contained in stored messages; and

erasing means for erasing the messages;

10 wherein, when designated character sequences are contained in the stored messages, the messages are erased collectively concerned messages.

12. A radio paging receiver according to claim 11,  
15 further comprising a character sequence inputting means for inputting character sequences which are retrieved to erase collectively messages.

13. A radio paging receiver according to claim 11 or  
20 claim 12, further comprising:

a second decoding means for picking up a plurality of calling addresses assigned to own receiver and picking up message data which are transmitted to own address;

a first storing means for storing the message data which  
25 are picked up by the second decoding means every address; and

an address setting means for designating addresses as objects of erasure according to character sequence conditions;

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wherein the messages related to particular addresses can be erased collectively when the messages contain designated character sequences.

5           14.   A radio paging receiver according to claim 11 or claim 12, further comprising:

          third decoding means for picking up message data which are classified into a hierarchical structure and transmitted to own address;

10           second storing means for storing the message data which are picked up by the third decoding means every hierarchy; and

          hierarchy setting means for designating hierarchies as objects of erasure according to character sequence conditions;

15           wherein the messages belonging to particular hierarchies can be erased collectively when the messages contain designated character sequences.

          15.   A message erasing method comprising the steps of:  
          receiving a radio signal from a base station of a radio  
20   paging system;

          picking up one calling address or a plurality of calling addresses assigned to own receiver from received radio signal;

          picking up message data corresponding to the calling address or the calling addresses;

25           storing message data being picked up;

          designating character sequences in stored messages;

          detecting whether or not designated character sequences

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monitoring whether or not a predetermined time has lapsed after the messages have been stored; and

erasing concerned messages if designated character

16. A message erasing method according to claim 15, wherein erasure of the messages is effected by inputting character sequences, which are retrieved to erase messages, via a character sequence inputting means.

17. A message erasing method according to claim 15, wherein the message data being picked up are stored every calling address, the calling addresses as objects of erasure by time counting are designated, and the erasure of the messages is effected by the addresses and the time counting.

18. A message erasing method according to claim 15, wherein message data which are classified into a hierarchical structure and transmitted to own address are picked up, the message data which are picked up are stored every hierarchy, hierarchies acting as objects of erasure by time counting are designated, and erasure of the messages is effected by the hierarchy setting and the time counting.



19. A message erasing method according to any one of claims 15 to 18, wherein times as timings for erasure of the messages are input by a user, it is monitored whether or not a time coincides with an input time, and the erasure of the messages is effected periodically at respective times which are input by the user.

20. A message erasing method according to any one of claims 15 to 18, wherein a day of the week acting as timings for erasure of the messages is input by a user, it is monitored whether or not a day of the week coincides with an input day of the week, and the erasure of the messages is effected periodically at respective days of the week which are input by the user.

21. A message erasing method comprising the steps of:  
receiving a radio signal from a base station of a radio paging system;

picking up one calling address or a plurality of calling addresses assigned to own receiver from the radio signal received;

picking up message data corresponding to the calling address or the calling addresses;

storing the message data being picked up;

designating character sequences in stored messages;

detecting whether or not designated character sequences are contained in received messages; and

erasing the messages not to store in a storage area after the messages have been checked when designated character

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sequences are contained in the received messages

22. A message erasing method according to claim 21,  
wherein character sequences which are retrieved to erase messages  
5 are input via a character sequence inputting means.

23. A message erasing method according to claim 21,  
wherein a plurality of calling addresses assigned to own receiver  
are picked up, message data which are transmitted to own address  
10 are picked up, the message data which are picked up by the second  
decoding means are stored every address, addresses as objects of  
erasure at a time of reception are designated, and the messages  
related to particular addresses are not stored in the storage area  
but erased after the messages have been checked.

24. A message erasing method according to claim 21,  
wherein message data which are classified into a hierarchical  
structure and transmitted to own address are picked up, the message  
data which are picked up by the third decoding means are stored  
20 every hierarchy, hierarchies acting as objects of erasure at a  
time of reception are designated, and the messages belonging to  
particular hierarchies are not stored in the storage area but  
erased after the messages have been checked.

25. A message erasing method comprising the steps of:  
receiving a radio signal from a base station of a radio  
paging system;

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picking up one calling address or a plurality of calling addresses assigned to own receiver from the radio signal being received;

5       picking up message data corresponding to the calling address or the calling addresses,

storing the message data picked up;

designating character sequences in stored messages;

detecting whether or not designated character sequences are contained in stored messages; and

10       erasing concerned messages collectively when designated character sequences are contained in the stored messages.

26.    A message erasing method according to claim 25, wherein character sequences which are retrieved to erase  
15       collectively messages are input via a character sequence inputting means.

27.    A message erasing method according to claim 25 or claim 26, wherein a plurality of calling addresses assigned to  
20       own receiver are picked up, message data which are transmitted to own address are picked up, the message data which are picked up are stored every address, addresses acting as objects of erasure are designated according to character sequence conditions, and the messages related to particular addresses can be erased  
25       collectively when the messages contain designated character sequences.

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28. A message erasing method according to claim 25 or claim 26, wherein message data which are classified into a hierarchical structure and transmitted to own address are picked up, the message data which are picked up are stored every hierarchy, hierarchies as objects of erasure are designated according to character sequence conditions, and the messages belonging to particular hierarchies can be erased collectively when the messages contain designated character sequences.

10 29. A radio equipment comprising a radio transmitter/receiver and a ~~radio~~ paging receiver set forth in claims 1 to 4, and 7 to 12.

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